Marc T M Koper

List of Publications by Year
in descending order

436 papers	49,609 citations	872 117 h-index	2033 205 g-index
462 all docs	462 docs citations	462 times ranked	24945 citing authors

#	Article	IF	Citations
1	Catalysts and Reaction Pathways for the Electrochemical Reduction of Carbon Dioxide. Journal of Physical Chemistry Letters, 2015, 6, 4073-4082.	4.6	1,524
2	Advances and challenges in understanding the electrocatalytic conversion of carbon dioxide to fuels. Nature Energy, 2019, 4, 732-745.	39.5	1,506
3	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.6	1,409
4	Challenges in reduction of dinitrogen by proton and electron transfer. Chemical Society Reviews, 2014, 43, 5183-5191.	38.1	1,234
5	Nitrogen Cycle Electrocatalysis. Chemical Reviews, 2009, 109, 2209-2244.	47.7	1,124
6	Thermodynamic theory of multi-electron transfer reactions: Implications for electrocatalysis. Journal of Electroanalytical Chemistry, 2011, 660, 254-260.	3.8	908
7	Interfacial water reorganization as a pH-dependent descriptor of the hydrogen evolution rate on platinum electrodes. Nature Energy, 2017, 2, .	39.5	791
8	A new mechanism for the selectivity to C1 and C2 species in the electrochemical reduction of carbon dioxide on copper electrodes. Chemical Science, 2011, 2, 1902.	7.4	764
9	Two Pathways for the Formation of Ethylene in CO Reduction on Single-Crystal Copper Electrodes. Journal of the American Chemical Society, 2012, 134, 9864-9867.	13.7	704
10	Theoretical Considerations on the Electroreduction of CO to C₂ Species on Cu(100) Electrodes. Angewandte Chemie - International Edition, 2013, 52, 7282-7285.	13.8	677
11	Introducing structural sensitivity into adsorptionâ€“energy scaling relations by means of coordination numbers. Nature Chemistry, 2015, 7, 403-410.	13.6	600
12	Theory of multiple protonâ€“electron transfer reactions and its implications for electrocatalysis. Chemical Science, 2013, 4, 2710.	7.4	581
13	The stability number as a metric for electrocatalyst stability benchmarking. Nature Catalysis, 2018, 1, 508-515.	34.4	533
14	Electrocatalytic reduction of nitrate at low concentration on coinage and transition-metal electrodes in acid solutions. Journal of Electroanalytical Chemistry, 2003, 554-555, 15-23.	3.8	506
15	Electrocatalytic Nitrate Reduction for Sustainable Ammonia Production. Joule, 2021, 5, 290-294.	24.0	497
16	The importance of nickel oxyhydroxide deprotonation on its activity towards electrochemical water oxidation. Chemical Science, 2016, 7, 2639-2645.	7.4	494
17	Guidelines for the Rational Design of Ni-Based Double Hydroxide Electrocatalysts for the Oxygen Evolution Reaction. ACS Catalysis, 2015, 5, 5380-5387.	11.2	472
18	Reactivity Descriptors for the Activity of Molecular MN4 Catalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2016, 55, 14510-14521.	13.8	463

#	Article	IF	Citations
19	In Situ Observation of Active Oxygen Species in Fe-Containing Ni-Based Oxygen Evolution Catalysts: The Effect of pH on Electrochemical Activity. Journal of the American Chemical Society, 2015, 137, 15112-15121.	13.7	459
20	Electrochemical CO₂ reduction on Cu₂O-derived copper nanoparticles: controlling the catalytic selectivity of hydrocarbons. Physical Chemistry Chemical Physics, 2014, 16, 12194-12201.	2.8	458
21	Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin. Nature Communications, 2015, 6, 8177.	12.8	456
22	Powering denitrification: the perspectives of electrocatalytic nitrate reduction. Energy and Environmental Science, 2012, 5, 9726.	30.8	436
23	Structure sensitivity and nanoscale effects in electrocatalysis. Nanoscale, 2011, 3, 2054.	5.6	402
24	The role of adsorbed hydroxide in hydrogen evolution reaction kinetics on modified platinum. Nature Energy, 2020, 5, 891-899.	39.5	400
25	Electrochemical CO₂ Reduction to Formic Acid at Low Overpotential and with High Faradaic Efficiency on Carbon-Supported Bimetallic Pdâ€“Pt Nanoparticles. ACS Catalysis, 2015, 5, 3916-3923.	11.2	394
26	Absence of CO2 electroreduction on copper, gold and silver electrodes without metal cations in solution. Nature Catalysis, 2021, 4, 654-662.	34.4	386
27	Role of Crystalline Defects in Electrocatalysis:â€‰ Mechanism and Kinetics of CO Adlayer Oxidation on Stepped Platinum Electrodes. Journal of Physical Chemistry B, 2002, 106, 12938-12947.	2.6	371
28	Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. Angewandte Chemie - International Edition, 2017, 56, 3621-3624.	13.8	366
29	Electrocatalytic Oxidation of Alcohols on Gold in Alkaline Media: Base or Gold Catalysis?. Journal of the American Chemical Society, 2011, 133, 6914-6917.	13.7	363
30	Manipulating the Hydrocarbon Selectivity of Copper Nanoparticles in CO₂ Electroreduction by Process Conditions. ChemElectroChem, 2015, 2, 354-358.	3.4	361
31	Iridium-based double perovskites for efficient water oxidation in acid media. Nature Communications, 2016, 7, 12363.	12.8	353
32	Electrochemistry of Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 3558-3586.	13.8	333
33	The role of adsorbates in the electrochemical oxidation of ammonia on noble and transition metal electrodes. Journal of Electroanalytical Chemistry, 2001, 506, 127-137.	3.8	323
34	The influence of pH on the reduction of CO and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si29.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml: to hydrocarbons on copper electrodes. Journal of Electroanalytical Chemistry, 2014, 716, 53-57.	3.8	319
35	Competition between CO₂ Reduction and Hydrogen Evolution on a Gold Electrode under Well-Defined Mass Transport Conditions. Journal of the American Chemical Society, 2020, 142, 4154-4161.	13.7	315
36	Three-dimensional porous hollow fibre copper electrodes for efficient and high-rate electrochemical carbon dioxide reduction. Nature Communications, 2016, 7, 10748.	12.8	294

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37	Structure- and Potential-Dependent Cation Effects on CO Reduction at Copper Single-Crystal Electrodes. Journal of the American Chemical Society, 2017, 139, 16412-16419.	13.7	289
38	Structure Sensitivity of the Electrochemical Reduction of Carbon Monoxide on Copper Single Crystals. ACS Catalysis, 2013, 3, 1292-1295.	11.2	282
39	Competition between Hydrogen Evolution and Carbon Dioxide Reduction on Copper Electrodes in Mildly Acidic Media. Langmuir, 2017, 33, 9307-9313.	3.5	277
40	Periodic Density Functional Study of CO and OH Adsorption on Ptâˆ'Ru Alloy Surfaces:Â Implications for CO Tolerant Fuel Cell Catalysts. Journal of Physical Chemistry B, 2002, 106, 686-692.	2.6	275
41	Number of outer electrons as descriptor for adsorption processes on transition metals and their oxides. Chemical Science, 2013, 4, 1245.	7.4	273
42	Highly Selective Electro-Oxidation of Glycerol to Dihydroxyacetone on Platinum in the Presence of Bismuth. ACS Catalysis, 2012, 2, 759-764.	11.2	259
43	Cooxidation on stepped Pt[n(111)Ã—(111)] electrodes. Journal of Electroanalytical Chemistry, 2000, 487, 37-44.	3.8	258
44	Electrocatalytic reduction of Nitrate on Copper single crystals in acidic and alkaline solutions.. Electrochimica Acta, 2017, 227, 77-84.	5.2	258
45	Structure Sensitivity of Methanol Electrooxidation Pathways on Platinum:Â An On-Line Electrochemical Mass Spectrometry Study. Journal of Physical Chemistry B, 2006, 110, 10021-10031.	2.6	252
46	Orientation-Dependent Oxygen Evolution on RuO₂ without Lattice Exchange. ACS Energy Letters, 2017, 2, 876-881.	17.4	251
47	Mechanism of the Catalytic Oxidation of Glycerol on Polycrystalline Gold and Platinum Electrodes. ChemCatChem, 2011, 3, 1176-1185.	3.7	246
48	MnO_x/IrO_x as Selective Oxygen Evolution Electrocatalyst in Acidic Chloride Solution. Journal of the American Chemical Society, 2018, 140, 10270-10281.	13.7	245
49	The promoting effect of adsorbed carbon monoxide on the oxidation of alcohols on a gold catalyst. Nature Chemistry, 2012, 4, 177-182.	13.6	237
50	Physical and Chemical Nature of the Scaling Relations between Adsorption Energies of Atoms on Metal Surfaces. Physical Review Letters, 2012, 108, 116103.	7.8	233
51	Electrochemical water splitting by gold: evidence for an oxide decomposition mechanism. Chemical Science, 2013, 4, 2334.	7.4	229
52	Effects of electrolyte pH and composition on the ethanol electro-oxidation reaction. Catalysis Today, 2010, 154, 92-104.	4.4	228
53	Electrocatalytic Conversion of Furanic Compounds. ACS Catalysis, 2016, 6, 6704-6717.	11.2	226
54	Role of Crystalline Defects in Electrocatalysis:Â CO Adsorption and Oxidation on Stepped Platinum Electrodes As Studied by in situ Infrared Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 9863-9872.	2.6	221

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55	Coâ€adsorption of Cations as the Cause of the Apparent pH Dependence of Hydrogen Adsorption on a Stepped Platinum Singleâ€Crystal Electrode. Angewandte Chemie - International Edition, 2017, 56, 15025-15029.	13.8	221
56	Importance of Acidâ€“Base Equilibrium in Electrocatalytic Oxidation of Formic Acid on Platinum. Journal of the American Chemical Society, 2013, 135, 9991-9994.	13.7	214
57	The influence of nitrate concentration and acidity on the electrocatalytic reduction of nitrate on platinum. Journal of Electroanalytical Chemistry, 2004, 562, 81-94.	3.8	209
58	A basic solution. Nature Chemistry, 2013, 5, 255-256.	13.6	205
59	Tailoring the catalytic activity of electrodes with monolayer amounts of foreign metals. Chemical Society Reviews, 2013, 42, 5210.	38.1	202
60	Water dissociation on well-defined platinum surfaces: The electrochemical perspective. Catalysis Today, 2013, 202, 105-113.	4.4	201
61	Quantum-chemical calculations of CO and OH interacting with bimetallic surfaces. Electrochimica Acta, 2002, 47, 3621-3628.	5.2	197
62	Analysis of electrocatalytic reaction schemes: distinction between rate-determining and potential-determining steps. Journal of Solid State Electrochemistry, 2013, 17, 339-344.	2.5	195
63	In Situ Spectroscopic Study of CO₂ Electroreduction at Copper Electrodes in Acetonitrile. ACS Catalysis, 2016, 6, 2382-2392.	11.2	194
64	Monte Carlo simulations of a simple model for the electrocatalytic CO oxidation on platinum. Journal of Chemical Physics, 1998, 109, 6051-6062.	3.0	189
65	Why Is Bulk Thermochemistry a Good Descriptor for the Electrocatalytic Activity of Transition Metal Oxides?. ACS Catalysis, 2015, 5, 869-873.	11.2	189
66	Ethanol electro-oxidation on platinum in alkaline media. Physical Chemistry Chemical Physics, 2009, 11, 10446.	2.8	186
67	Water at charged interfaces. Nature Reviews Chemistry, 2021, 5, 466-485.	30.2	186
68	Enhancement of Oxygen Evolution Activity of Nickel Oxyhydroxide by Electrolyte Alkali Cations. Angewandte Chemie - International Edition, 2019, 58, 12999-13003.	13.8	182
69	First-principles computational electrochemistry: Achievements and challenges. Electrochimica Acta, 2012, 84, 3-11.	5.2	180
70	On the importance of correcting for the uncompensated Ohmic resistance in model experiments of the Oxygen Reduction Reaction. Journal of Electroanalytical Chemistry, 2010, 647, 29-34.	3.8	177
71	Mechanistic classification of electrochemical oscillators â€” an operational experimental strategy. Journal of Electroanalytical Chemistry, 1999, 478, 50-66.	3.8	176
72	Mechanism and kinetics of the electrochemical CO adlayer oxidation on Pt(111). Journal of Electroanalytical Chemistry, 2002, 524-525, 242-251.	3.8	176

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73	Intermediate stages of electrochemical oxidation of single-crystalline platinum revealed by in situ Raman spectroscopy. Nature Communications, 2016, 7, 12440.	12.8	175
74	A spongy nickel-organic CO ₂ reduction photocatalyst for nearly 100% selective CO production. Science Advances, 2017, 3, e1700921.	10.3	175
75	Mechanism of the Dissociation and Electrooxidation of Ethanol and Acetaldehyde on Platinum As Studied by SERS. Journal of Physical Chemistry C, 2008, 112, 19080-19087.	3.1	170
76	Combining Voltammetry with HPLC: Application to Electro-Oxidation of Glycerol. Analytical Chemistry, 2010, 82, 5420-5424.	6.5	170
77	Efficiency and selectivity of CO2 reduction to CO on gold gas diffusion electrodes in acidic media. Nature Communications, 2021, 12, 4943.	12.8	170
78	Ab Initio Calculations of Intermediates of Oxygen Reduction on Low-Index Platinum Surfaces. Journal of the Electrochemical Society, 2004, 151, A2016.	2.9	169
79	Controlling Catalytic Selectivities during CO₂ Electroreduction on Thin Cu Metal Overlayers. Journal of Physical Chemistry Letters, 2013, 4, 2410-2413.	4.6	168
80	Bond-Making and Breaking between Carbon, Nitrogen, and Oxygen in Electrocatalysis. Journal of the American Chemical Society, 2014, 136, 15694-15701.	13.7	168
81	Field-dependent chemisorption of carbon monoxide and nitric oxide on platinum-group (111) surfaces: Quantum chemical calculations compared with infrared spectroscopy at electrochemical and vacuum-based interfaces. Journal of Chemical Physics, 2000, 113, 4392-4407.	3.0	167
82	DFT Study on the Mechanism of the Electrochemical Reduction of CO₂ Catalyzed by Cobalt Porphyrins. Journal of Physical Chemistry C, 2016, 120, 15714-15721.	3.1	167
83	Landing and Catalytic Characterization of Individual Nanoparticles on Electrode Surfaces. Journal of the American Chemical Society, 2012, 134, 18558-18561.	13.7	160
84	On-line mass spectrometry system for measurements at single-crystal electrodes in hanging meniscus configuration. Journal of Applied Electrochemistry, 2006, 36, 1215-1221.	2.9	159
85	Electro-oxidation of ethanol and acetaldehyde on platinum single-crystal electrodes. Faraday Discussions, 2008, 140, 399-416.	3.2	159
86	Proton-coupled electron transfer in the electrocatalysis of CO₂ reduction: prediction of sequential vs. concerted pathways using DFT. Chemical Science, 2017, 8, 458-465.	7.4	159
87	Suppression of Hydrogen Evolution in Acidic Electrolytes by Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2021, 143, 279-285.	13.7	158
88	Interaction of H, O and OH with metal surfaces. Journal of Electroanalytical Chemistry, 1999, 472, 126-136.	3.8	157
89	Mechanisms of Carbon Monoxide and Methanol Oxidation at Single-crystal Electrodes. Topics in Catalysis, 2007, 46, 320-333.	2.8	157
90	Strong Impact of Platinum Surface Structure on Primary and Secondary Alcohol Oxidation during Electro-Oxidation of Glycerol. ACS Catalysis, 2016, 6, 4491-4500.	11.2	156

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91	Lattice Gas Model for CO Electrooxidation on Ptâˆ’Ru Bimetallic Surfaces. Journal of Physical Chemistry B, 1999, 103, 5522-5529.	2.6	152
92	Nitrate reduction on single-crystal platinum electrodes. Electrochimica Acta, 2005, 50, 4318-4326.	5.2	152
93	Mechanisms of electrochemical reduction and oxidation of nitric oxide. Electrochimica Acta, 2004, 49, 1307-1314.	5.2	151
94	Mechanistic Study on the Electrocatalytic Reduction of Nitric Oxide on Transition-Metal Electrodes. Journal of Catalysis, 2001, 202, 387-394.	6.2	148
95	Electrocatalytic oxidation of hydrazine on platinum electrodes in alkaline solutions. Electrochimica Acta, 2008, 53, 5199-5205.	5.2	148
96	Stripping voltammetry of carbon monoxide oxidation on stepped platinum single-crystal electrodes in alkaline solution. Physical Chemistry Chemical Physics, 2008, 10, 3802.	2.8	148
97	Electrocatalysis on gold. Physical Chemistry Chemical Physics, 2014, 16, 13583-13594.	2.8	143
98	Cathodic Corrosion: A Quick, Clean, and Versatile Method for the Synthesis of Metallic Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 6346-6350.	13.8	142
99	Non-linear phenomena in electrochemical systems. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1369-1378.	1.7	139
100	Electrochemical CO2 reduction to formic acid on a Pd-based formic acid oxidation catalyst. Catalysis Today, 2015, 244, 58-62.	4.4	138
101	Electrocatalytic oxidation of ammonia on Pt(111) and Pt(100) surfaces. Physical Chemistry Chemical Physics, 2006, 8, 2513.	2.8	137
102	The Interrelated Effect of Cations and Electrolyte pH on the Hydrogen Evolution Reaction on Gold Electrodes in Alkaline Media. Angewandte Chemie - International Edition, 2021, 60, 13452-13462.	13.8	137
103	The Importance of Cannizzaro-Type Reactions during Electrocatalytic Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2017, 139, 2030-2034.	13.7	133
104	Structural and electronic effects in heterogeneous electrocatalysis: Toward a rational design of electrocatalysts. Journal of Catalysis, 2013, 308, 11-24.	6.2	132
105	Structure-sensitive electroreduction of acetaldehyde to ethanol on copper and its mechanistic implications for CO and CO 2 reduction. Catalysis Today, 2016, 262, 90-94.	4.4	132
106	Measurement of competition between oxygen evolution and chlorine evolution using rotating ring-disk electrode voltammetry. Journal of Electroanalytical Chemistry, 2018, 819, 260-268.	3.8	131
107	Methanol Oxidation on Stepped Pt[n(111) Ã— (110)] Electrodes:Â A Chronoamperometric Study. Journal of Physical Chemistry B, 2003, 107, 8557-8567.	2.6	129
108	The Role of Cation Acidity on the Competition between Hydrogen Evolution and CO₂ Reduction on Gold Electrodes. Journal of the American Chemical Society, 2022, 144, 1589-1602.	13.7	127

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109	Promotion of the Oxidation of Carbon Monoxide at Stepped Platinum Single-Crystal Electrodes in Alkaline Media by Lithium and Beryllium Cations. Journal of the American Chemical Society, 2010, 132, 16127-16133.	13.7	124
110	The theory of electrochemical instabilities. Electrochimica Acta, 1992, 37, 1771-1778.	5.2	122
111	Instabilities and oscillations in simple models of electrocatalytic surface reactions. Journal of Electroanalytical Chemistry, 1994, 371, 149-159.	3.8	122
112	The effect of pH on the electrocatalytic oxidation of formic acid/formate on platinum: A mechanistic study by surface-enhanced infrared spectroscopy coupled with cyclic voltammetry. Electrochimica Acta, 2014, 129, 127-136.	5.2	122
113	Oxygen reduction and evolution at single-metal active sites: Comparison between functionalized graphitic materials and protoporphyrins. Surface Science, 2013, 607, 47-53.	1.9	121
114	Pseudo-Single-Crystal Electrochemistry on Polycrystalline Electrodes: Visualizing Activity at Grains and Grain Boundaries on Platinum for the Fe²⁺/Fe³⁺ Redox Reaction. Journal of the American Chemical Society, 2013, 135, 3873-3880.	13.7	121
115	Stability study and categorization of electrochemical oscillators by impedance spectroscopy. Journal of Electroanalytical Chemistry, 1996, 409, 175-182.	3.8	120
116	Mechanistic study of the nitric oxide reduction on a polycrystalline platinum electrode. Electrochimica Acta, 2001, 46, 923-930.	5.2	120
117	Comparison of methanol, ethanol and iso-propanol oxidation on Pt and Pd electrodes in alkaline media studied by HPLC. Electrochemistry Communications, 2011, 13, 466-469.	4.7	119
118	Structure- and Coverage-Sensitive Mechanism of NO Reduction on Platinum Electrodes. ACS Catalysis, 2017, 7, 4660-4667.	11.2	118
119	Selective Catalytic Reduction at Quasi-Perfect Pt(100) Domains: A Universal Low-Temperature Pathway from Nitrite to N₂. Journal of the American Chemical Society, 2011, 133, 10928-10939.	13.7	117
120	Modeling the Oxygen Evolution Reaction on Metal Oxides: The Infuence of Unrestricted DFT Calculations. Journal of Physical Chemistry C, 2014, 118, 4095-4102.	3.1	117
121	Selectivity Trends Between Oxygen Evolution and Chlorine Evolution on Iridium-Based Double Perovskites in Acidic Media. ACS Catalysis, 2019, 9, 8561-8574.	11.2	117
122	Bifurcations of mixed-mode oscillations in a three-variable autonomous Van der Pol-Duffing model with a cross-shaped phase diagram. Physica D: Nonlinear Phenomena, 1995, 80, 72-94.	2.8	116
123	Electrocatalytic Hydrogenation of 5â€Hydroxymethylfurfural in Acidic Solution. ChemSusChem, 2015, 8, 1745-1751.	6.8	113
124	Oscillations and Complex Dynamical Bifurcations in Electrochemical Systems. Advances in Chemical Physics, 2007, , 161-298.	0.3	112
125	Spectroscopic Observation of a Hydrogenated CO Dimer Intermediate During CO Reduction on Cu(100) Electrodes. Angewandte Chemie, 2017, 129, 3675-3678.	2.0	112
126	Correlation of surface site formation to nanoisland growth in the electrochemical roughening of Pt(111). Nature Materials, 2018, 17, 277-282.	27.5	112

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127	Electrolyte Effects on CO₂ Electrochemical Reduction to CO. Accounts of Chemical Research, 2022, 55, 1900-1911.	15.6	112
128	Field-Dependent Electrodeâˆ’Chemisorbate Bonding:Â Sensitivity of Vibrational Stark Effect and Binding Energetics to Nature of Surface Coordination. Journal of the American Chemical Society, 2002, 124, 2796-2805.	13.7	110
129	Adsorption of phosphate species on poly-oriented Pt and Pt(1 1 1) electrodes over a wide range of pH. Electrochimica Acta, 2010, 55, 7961-7968.	5.2	109
130	Electrocatalytic Hydrogenation of 5â€•Hydroxymethylfurfural in the Absence and Presence of Glucose. ChemSusChem, 2013, 6, 1659-1667.	6.8	109
131	Voltammetric Scanning Electrochemical Cell Microscopy: Dynamic Imaging of Hydrazine Electro-oxidation on Platinum Electrodes. Analytical Chemistry, 2015, 87, 5782-5789.	6.5	109
132	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
133	Electrocatalysis on bimetallic and alloy surfaces. Surface Science, 2004, 548, 1-3.	1.9	105
134	Electrochemical Reduction of NO by Hemin Adsorbed at Pyrolitic Graphite. Journal of the American Chemical Society, 2005, 127, 7579-7586.	13.7	103
135	Computational Comparison of Late Transition Metal (100) Surfaces for the Electrocatalytic Reduction of CO to C₂ Species. ACS Energy Letters, 2018, 3, 1062-1067.	17.4	103
136	Electrochemical Hydrogen Production: Bridging Homogeneous and Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2010, 49, 3723-3725.	13.8	102
137	Glycerol electro-oxidation on bismuth-modified platinum single crystals. Journal of Catalysis, 2017, 346, 117-124.	6.2	102
138	Modeling the butterfly: the voltammetry of (âˆš3Ã—âˆš3)R30Â° and p(2Ã—2) overlayers on (111) electrodes. Journal of Electroanalytical Chemistry, 2000, 485, 161-165.	3.8	100
139	pH dependence of the electroreduction of nitrate on Rh and Pt polycrystalline electrodes. Chemical Communications, 2014, 50, 2148-2151.	4.1	100
140	Oxidation of Formic Acid and Carbon Monoxide on Gold Electrodes Studied by Surface-Enhanced Raman Spectroscopy and DFT. ChemPhysChem, 2005, 6, 2597-2606.	2.1	99
141	A lattice-gas model for halide adsorption on single-crystal electrodes. Journal of Electroanalytical Chemistry, 1998, 450, 189-201.	3.8	98
142	Carbon Monoxide Oxidation on Pt Single Crystal Electrodes: Understanding the Catalysis for Low Temperature Fuel Cells. ChemPhysChem, 2011, 12, 2064-2072.	2.1	98
143	Theoretical design and experimental implementation of Ag/Au electrodes for the electrochemical reduction of nitrate. Physical Chemistry Chemical Physics, 2013, 15, 3196.	2.8	98
144	Electrolyte Effects on the Faradaic Efficiency of CO₂ Reduction to CO on a Gold Electrode. ACS Catalysis, 2021, 11, 4936-4945.	11.2	97

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145	Theory of the transition from sequential to concerted electrochemical protonâ€“electron transfer. Physical Chemistry Chemical Physics, 2013, 15, 1399-1407.	2.8	96
146	Electrochemical oscillators: their description through a mathematical model. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 303, 73-94.	0.1	95
147	Structural principles to steer the selectivity of the electrocatalytic reduction of aliphatic ketones on platinum. Nature Catalysis, 2019, 2, 243-250.	34.4	95
148	Potential Oscillations and S-Shaped Polarization Curve in the Continuous Electro-oxidation of CO on Platinum Single-crystal Electrodes. Journal of Physical Chemistry B, 2001, 105, 8381-8386.	2.6	94
149	Effect of the Interfacial Water Structure on the Hydrogen Evolution Reaction on Pt(111) Modified with Different Nickel Hydroxide Coverages in Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 613-623.	8.0	94
150	Cathodic Corrosion as a Facile and Effective Method To Prepare Clean Metal Alloy Nanoparticles. Journal of the American Chemical Society, 2011, 133, 17626-17629.	13.7	92
151	Ab initio studies of a water layer at transition metal surfaces. Journal of Chemical Physics, 2005, 122, 054701.	3.0	89
152	Density functional theory study of the oxidation of CO by OH on Au(110) and Pt(111) surfaces. Physical Chemistry Chemical Physics, 2004, 6, 4215.	2.8	88
153	Understanding Cation Trends for Hydrogen Evolution on Platinum and Gold Electrodes in Alkaline Media. ACS Catalysis, 2021, 11, 14328-14335.	11.2	87
154	Reduction of NO Adlayers on Pt(110) and Pt(111) in Acidic Media:Â Evidence for Adsorption Site-Specific Reduction. Langmuir, 2005, 21, 1448-1456.	3.5	86
155	Field-Dependent Chemisorption of Carbon Monoxide on Platinum-Group (111) Surfaces:Â Relationships between Binding Energetics, Geometries, and Vibrational Properties as Assessed by Density Functional Theory. Journal of Physical Chemistry B, 2001, 105, 3518-3530.	2.6	85
156	Importance of Solvation for the Accurate Prediction of Oxygen Reduction Activities of Pt-Based Electrocatalysts. Journal of Physical Chemistry Letters, 2017, 8, 2243-2246.	4.6	85
157	Density functional theory study of adsorption of H2O, H, O, and OH on stepped platinum surfaces. Journal of Chemical Physics, 2014, 140, 134708.	3.0	83
158	Electrochemical and Spectroelectrochemical Characterization of an Iridium-Based Molecular Catalyst for Water Splitting: Turnover Frequencies, Stability, and Electrolyte Effects. Journal of the American Chemical Society, 2014, 136, 10432-10439.	13.7	83
159	The modeling of mixedâ€mode and chaotic oscillations in electrochemical systems. Journal of Chemical Physics, 1992, 96, 7797-7813.	3.0	81
160	Electric field effects on CO and NO adsorption at the Pt(111) surface. Journal of Electroanalytical Chemistry, 1999, 476, 64-70.	3.8	81
161	The nature of chemisorbates formed from ammonia on gold and palladium electrodes as discerned from surface-enhanced Raman spectroscopy. Electrochemistry Communications, 2001, 3, 293-298.	4.7	80
162	Double Layer at the Pt(111)â€“Aqueous Electrolyte Interface: Potential of Zero Charge and Anomalous Gouyâ€“Chapman Screening. Angewandte Chemie - International Edition, 2020, 59, 711-715.	13.8	80

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163	The effect of the cooling atmosphere in the preparation of flame-annealed Pt(111) electrodes on CO adlayer oxidation. Electrochemistry Communications, 2000, 2, 487-490.	4.7	79
164	Electrochemical Reduction of Oxygen on Gold Surfaces:â€‰ A Density Functional Theory Study of Intermediates and Reaction Paths. Journal of Physical Chemistry C, 2007, 111, 2607-2613.	3.1	79
165	Tuning Adsorption via Strain and Vertical Ligand Effects. ChemPhysChem, 2010, 11, 1518-1524.	2.1	79
166	Influence of Hydrazine-Induced Aggregation on the Electrochemical Detection of Platinum Nanoparticles. Langmuir, 2013, 29, 2054-2064.	3.5	79
167	Mechanism of Electrocatalytic Reduction of Nitric Oxide on Pt(100). Journal of Physical Chemistry B, 2005, 109, 16750-16759.	2.6	77
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